

Subject Index

Volume 55 (1990)

acidic phospholipids, vesicle membranes, bilayer phase transition, additive effect, cationic surfactants, 145
addition to the liposome solution, phospholipid liposomes, tocopherols and tocotrienols, changes in membrane fluidity, changes in membrane potential, antioxidative activity, 295
additive effect, acidic phospholipids, vesicle membranes, bilayer phase transition, cationic surfactants, 145
aggregation, phospholipid vesicles, dextran sulfate, fusion, electrophoresis, turbidity, fluorescence, 301
albumin, sulphatide, phosphatidylcholine, micelles, liposomes, 207
antibodies, PAF, radioimmunoassay, 265
antioxidative activity, phospholipid liposomes, tocopherols and tocotrienols, addition to the liposome solution, changes in membrane fluidity, changes in membrane potential, 295
atrazine, triazine pesticides, DPPC liposomes, FT-IR, DSC, fluorescence polarization, 179
azathia analogues, phospholipid synthesis, platelet activating factor analogues, ether lipids, 155
bacteriorhodopsin, circular dichroism (CD) active phospholipid, CD active liposomes, lipid-protein interaction, 115
bilayer phase transition, acidic phospholipids, vesicle membranes, additive effect, cationic surfactants, 145
biological membranes, liposomes, microsomes, photoreactive gangliosides, *N*-diazirinyl-lyso- G_{M1} , cholera toxin, 103
bipolar lipids, monopolar-bipolar lipid interactions, sonicated vesicles, 1H -NMR, 85
calculations, lipid bilayers, crystal structures, energy minimization, conformation, 253
carboxylic acid or primary amine titration, ESR-spin labeling, vesicles, cysteamine, partition coefficient, surface potential, 133
cationic surfactants, acidic phospholipids, vesicle membranes, bilayer phase transition, additive effect, 145
CD active liposomes, circular dichroism (CD) active phospholipid, lipid-protein interaction, bacteriorhodopsin, 115
changes in membrane fluidity, phospholipid liposomes, tocopherols and tocotrienols, addition to the liposome solution, changes in membrane potential, antioxidative activity, 295
changes in membrane potential, phospholipid liposomes, tocopherols and tocotrienols, addition to the liposome solution, changes in membrane fluidity, antioxidative activity, 295
chemical synthesis, glycolipids, monoglucosyl diacylglycerols, monogalactosyl diacylglycerols, membrane lipids, 309
chemiluminescence, oxidation, linolenic acid, tocopherol, lipid, ESR, vitamin E, 215
cholera toxin, biological membranes, liposomes, microsomes, photoreactive gangliosides, *N*-diazirinyl-lyso- G_{M1} , 103
cholestane spin label, phosphatidylethanolamine, phosphatidylglycerol, ESR, reorientational dynamics, hydration, 123
cholesteryl phosphate, cholesteryl pyrophosphate, phosphatidylethanolamine, hexagonal phase, differential scanning calorimetry, 49
cholesteryl pyrophosphate, cholesteryl phosphate, phosphatidylethanolamine, hexagonal phase, differential scanning calorimetry, 49
circular dichroism (CD) active phospholipid, CD active liposomes, lipid-protein interaction, bacteriorhodopsin, 115
conformation, lipid bilayers, crystal structures, energy minimization, calculations, 253
continuous distribution analysis, multilamellar vesicles, phosphatidic acid, DPH and TMA-DPH, frequency-domain fluorometry, fluorescence lifetime, 29
crystal structures, lipid bilayers, energy minimization, conformation, calculations, 253
cyclopentanoid lipids, phosphatidic acids, polar head group geometry, electron paramagnetic resonance, differential scanning calorimetry, spin label, thermotropic lipid transitions, 231
cysteamine, ESR-spin labeling, vesicles, partition coefficient, surface potential, carboxylic acid or primary amine titration, 133
detergent, short chain phospholipids, ^{31}P -NMR, phase separation, membrane protein crystallization, polyethylene glycol, 351
deuterium-NMR, hydration, phosphatidylcholine multibilayers, spin-lattice relaxation, head-group dynamics, interbilayer water, 61
dextran sulfate, phospholipid vesicles, aggregation, fusion, electrophoresis, turbidity, fluorescence, 301
N-diazirinyl-lyso- G_{M1} , biological membranes, liposomes, microsomes, photoreactive gangliosides, cholera toxin, 103
differential scanning calorimetry, cholesteryl phosphate, cho-

olesteryl pyrophosphate, phosphatidylethanolamine, hexagonal phase, 49

differential scanning calorimetry, triglycerides, tripalmitin, polymorphism, kinetics, X-ray diffraction, 163

differential scanning calorimetry, lipid phase transition, sulfur-containing phosphatidylcholines, 323

differential scanning calorimetry, phosphatidic acids, polar head group geometry, cyclopentanoid lipids, electron paramagnetic resonance, spin label, thermotropic lipid transitions, 231

distribution of the esters, phosphonic acid diesters, egg yolk lecithin water systems, phase behaviour, orientational behavioural, ^2H - and ^{31}P -NMR, 1

DPH and TMA-DPH, multilamellar vesicles, phosphatidic acid, frequency-domain fluorometry, fluorescence lifetime, continuous distribution analysis, 29

DPPC liposomes, atrazine, triazine pesticides, FT-IR, DSC, fluorescence polarization, 179

DSC, atrazine, triazine pesticides, DPPC liposomes, FT-IR, fluorescence polarization, 179

DSC, X-ray diffraction, liposomes, propranolol, phase transitions, 331

egg yolk lecithin water systems, phosphonic acid diesters, phase behaviour, orientational behavioural, distribution of the esters, ^2H - and ^{31}P -NMR, 1

electron paramagnetic resonance, phosphatidic acids, polar head group geometry, cyclopentanoid lipids, differential scanning calorimetry, spin label, thermotropic lipid transitions, 231

electrophoresis, phospholipid vesicles, dextran sulfate, aggregation, fusion, turbidity, fluorescence, 301

energy minimization, lipid bilayers, crystal structures, conformation, calculations, 253

enrichment, solute entrapment, POPC vesicles, free-thaw extrusion, 73

ESR, oxidation, linolenic acid, tocopherol, lipid, chemiluminescence, vitamin E, 215

ESR, phosphatidylethanolamine, phosphatidylglycerol, cholestan spin label, reorientational dynamics, hydration, 123

ESR-spin labeling, vesicles, cysteamine, partition coefficient, surface potential, carboxylic acid or primary amine titration, 133

ether lipids, phospholipid synthesis, platelet activating factor analogues, azathia analogues, 155

fluorescence, phospholipid vesicles, dextran sulfate, aggregation, fusion, electrophoresis, turbidity, 301

fluorescence lifetime, multilamellar vesicles, phosphatidic acid, DPH and TMA-DPH, frequency-domain fluorometry, continuous distribution analysis, 29

fluorescence microscopy, phospholipase A₂, pyrenephospholipid, monolayers, Langmuir-Blodgett film, 55

fluorescence polarization, phosphatidylethanolamine, phosphatidylserine, plasmalogens, ^{31}P -NMR, X-ray diffraction, 41

fluorescence polarization, atrazine, triazine pesticides, DPPC liposomes, FT-IR, DSC, 179

fluorescent probes, membrane fluidity, phospholipid vesicles, partition coefficients, 13

free-thaw extrusion, solute entrapment, POPC vesicles, enrichment, 73

freeze fracture electron microscopy, pH-sensitive liposomes, phosphatidylethanolamine, hexagonal phase, 339

free fatty acids, partitioning of free fatty acids, phospholipid vesicles, 245

frequency-domain fluorometry, multilamellar vesicles, phosphatidic acid, DPH and TMA-DPH, fluorescence lifetime, continuous distribution analysis, 29

FT-IR, atrazine, triazine pesticides, DPPC liposomes, DSC, fluorescence polarization, 179

fusion, phospholipid vesicles, dextran sulfate, aggregation, electrophoresis, turbidity, fluorescence, 301

gangliosides, mixed micelles, phase separation, 223

glycolipids, chemical synthesis, monoglucomyl diacylglycerols, monogalactosyl diacylglycerols, membrane lipids, 309

head-group dynamics, hydration, phosphatidylcholine multibilayers, deuterium-NMR, spin-lattice relaxation, interbilayer water, 61

hexagonal phase, cholesteryl phosphate, cholesteryl pyrophosphate, phosphatidylethanolamine, differential scanning calorimetry, 49

hexagonal phase, pH-sensitive liposomes, phosphatidylethanolamine, freeze fracture electron microscopy, 339

hydration, phosphatidylcholine multibilayers, deuterium-NMR, spin-lattice relaxation, head-group dynamics, interbilayer water, 61

hydration, phosphatidylethanolamine, phosphatidylglycerol, ESR, cholestan spin label, reorientational dynamics, 123

hypoxia, lipid peroxides, lactate, 25

interbilayer water, hydration, phosphatidylcholine multibilayers, deuterium-NMR, spin-lattice relaxation, head-group dynamics, 61

kinetics, triglycerides, tripalmitin, polymorphism, X-ray diffraction, differential scanning calorimetry, 163

lactate, hypoxia, lipid peroxides, 25

Langmuir-Blodgett film, phospholipase A₂, pyrenephospholipid, monolayers, fluorescence microscopy, 55

linolenic acid, oxidation, tocopherol, lipid, chemiluminescence, ESR, vitamin E, 215

lipid-amino acid interaction, model membrane, X-ray scattering, swelling, pattern recognition approach, tryptophan, 283

lipid-protein interaction, circular dichroism (CD) active phospholipid, CD active liposomes, bacteriorhodopsin, 115

lipid, oxidation, linolenic acid, tocopherol, chemiluminescence, ESR, vitamin E, 215

lipid bilayers, crystal structures, energy minimization, conformation, calculations, 253

lipid bilayers, sponge phase, phase transition, 191

lipid peroxides, hypoxia, lactate, 25

lipid phase transition, sulfur-containing phosphatidylcholines, differential scanning calorimetry, 323

liposomes, biological membranes, microsomes, photoreactive gangliosides, *N*-diazirinyl-lyso-G_{M1}, cholera toxin, 103

liposomes, DSC, X-ray diffraction, propranolol, phase transitions, 331

liposomes, sulphatide, phosphatidylcholine, albumin, micelles, 207

membrane fluidity, fluorescent probes, phospholipid vesicles, partition coefficients, 13

membrane lipids, chemical synthesis, glycolipids, monoglycosyl diacylglycerols, monogalactosyl diacylglycerols, 309

membrane protein crystallization, short chain phospholipids, ³¹P-NMR, phase separation, detergent, polyethylene glycol, 351

micelles, sulphatide, phosphatidylcholine, albumin, liposomes, 207

microsomes, biological membranes, liposomes, photoreactive gangliosides, *N*-diazirinyl-lyso-G_{M1}, cholera toxin, 103

mixed micelles, gangliosides, phase separation, 223

model membrane, X-ray scattering, swelling, pattern recognition approach, lipid-amino acid interaction, tryptophan, 283

monogalactosyl diacylglycerols, chemical synthesis, glycolipids, monoglycosyl diacylglycerols, membrane lipids, 309

monoglycosyl diacylglycerols, chemical synthesis, glycolipids, monogalactosyl diacylglycerols, membrane lipids, 309

monoglyceride, phase diagram, sucrose, water, X-ray diffraction, 97

monolayers, phospholipase A₂, pyrenephospholipid, fluorescence microscopy, Langmuir-Blodgett film, 55

monopolar-bipolar lipid interactions, bipolar lipids, sonicated vesicles, ¹H-NMR, 85

multilamellar vesicles, phosphatidic acid, DPH and TMA-DPH, frequency-domain fluorometry, fluorescence lifetime, continuous distribution analysis, 29

²H- and ³¹P-NMR, phosphonic acid diesters, egg yolk lecithin water systems, phase behaviour, orientational behavioural, distribution of the esters, 1

¹H-NMR, bipolar lipids, monopolar-bipolar lipid interactions, sonicated vesicles, 85

³¹P-NMR, phosphatidylethanolamine, phosphatidylserine, plasmalogens, fluorescence polarization, X-ray diffraction, 41

³¹P-NMR, short chain phospholipids, phase separation, detergent, membrane protein crystallization, polyethylene glycol, 351

orientational behavioural, phosphonic acid diesters, egg yolk lecithin water systems, phase behaviour, distribution of the esters, ²H- and ³¹P-NMR, 1

oxidation, linolenic acid, tocopherol, lipid, chemiluminescence, ESR, vitamin E, 215

ozonolysis, polyunsaturated fatty esters, 67

PAF, radioimmunoassay, antibodies, 265

partitioning of free fatty acids, free fatty acids, phospholipid vesicles, 245

partition coefficient, ESR-spin labeling, vesicles, cysteamine, surface potential, carboxylic acid or primary amine titration, 133

partition coefficients, fluorescent probes, membrane fluidity, phospholipid vesicles, 13

pattern recognition approach, model membrane, X-ray scattering, swelling, lipid-amino acid interaction, tryptophan, 283

pH-sensitive liposomes, phosphatidylethanolamine, freeze fracture electron microscopy, hexagonal phase, 339

phase behaviour, phosphonic acid diesters, egg yolk lecithin water systems, orientational behavioural, distribution of the esters, ²H- and ³¹P-NMR, 1

phase diagram, monoglyceride, sucrose, water, X-ray diffraction, 97

phase separation, gangliosides, mixed micelles, 223

phase separation, propylgallate, phospholipid, phase transition, subtransition, 275

phase separation, short chain phospholipids, ³¹P-NMR, detergent, membrane protein crystallization, polyethylene glycol, 351

phase transition, propylgallate, phospholipid, subtransition, phase separation, 275

phase transitions, DSC, X-ray diffraction, liposomes, propranolol, 331

phase transitions, lipid bilayers, sponge phase, 191

phosphatidic acid, multilamellar vesicles, DPH and TMA-DPH, frequency-domain fluorometry, fluorescence lifetime, continuous distribution analysis, 29

phosphatidic acids, polar head group geometry, cyclopentanoid lipids, electron paramagnetic resonance, differential scanning calorimetry, spin label, thermotropic lipid transitions, 231

phosphatidylcholine, sulphatide, albumin, micelles, liposomes, 207

phosphatidylcholine multibilayers, hydration, deuterium-NMR, spin-lattice relaxation, head-group dynamics, interbilayer water, 61

phosphatidylethanolamine, phosphatidylglycerol, ESR, cholestane spin label, reorientational dynamics, hydration, 123

phosphatidylethanolamine, phosphatidylserine, plasmalogens, fluorescence polarization, ³¹P-NMR, X-ray diffraction, 41

phosphatidylethanolamine, cholesteryl phosphate, cholesteryl pyrophosphate, hexagonal phase, differential scanning calorimetry, 49

phosphatidylethanolamine, pH-sensitive liposomes, freeze fracture electron microscopy, hexagonal phase, 339

phosphatidylglycerol, phosphatidylethanolamine, ESR, cholestane spin label, reorientational dynamics, hydration, 123

phosphatidylserine, phosphatidylethanolamine, plasmalogens, fluorescence polarization, ³¹P-NMR, X-ray diffraction, 41

phospholipase A₂, pyrenephospholipid, monolayers, fluorescence microscopy, Langmuir-Blodgett film, 55

phospholipid, propylgallate, phase transition, subtransition, phase separation, 275

phospholipid liposomes, tocopherols and tocotrienols, addition to the liposome solution, changes in membrane fluid-

ity, changes in membrane potential, antioxidative activity, 295

phospholipid synthesis, platelet activating factor analogues, azathia analogues, ether lipids, 155

phospholipid vesicles, dextran sulfate, aggregation, fusion, electrophoresis, turbidity, fluorescence, 301

phospholipid vesicles, fluorescent probes, membrane fluidity, partition coefficients, 13

phospholipid vesicles, free fatty acids, partitioning of free fatty acids, 245

phosphonic acid diesters, egg yolk lecithin water systems, phase behaviour, orientational behavioural, distribution of the esters, ^2H - and ^{31}P -NMR, 1

photoreactive gangliosides, biological membranes, liposomes, microsomes, *N*-diazirinyl-lyso-G_{M1}, cholera toxin, 103

plasmalogens, phosphatidylethanolamine, phosphatidylserine, fluorescence polarization, ^{31}P -NMR, X-ray diffraction, 41

platelet activating factor analogues, phospholipid synthesis, azathia analogues, ether lipids, 155

polar head group geometry, phosphatidic acids, cyclopentanoid lipids, electron paramagnetic resonance, differential scanning calorimetry, spin label, thermotropic lipid transitions, 231

polyethylene glycol, short chain phospholipids, ^{31}P -NMR, phase separation, detergent, membrane protein crystallization, 351

polymorphism, triglycerides, tripalmitin, kinetics, X-ray diffraction, differential scanning calorimetry, 163

polyunsaturated fatty esters, ozonolysis, 67

POPC vesicles, solute entrapment, free-thaw extrusion, enrichment, 73

propranolol, DSC, X-ray diffraction, liposomes, phase transitions, 331

propylgallate, phospholipid, phase transition, subtransition, phase separation, 275

pyrenephospholipid, phospholipase A₂, monolayers, fluorescence microscopy, Langmuir-Blodgett film, 55

radioimmunoassay, PAF, antibodies, 265

reorientational dynamics, phosphatidylethanolamine, phosphatidylglycerol, ESR, cholestane spin label, hydration, 123

short chain phospholipids, ^{31}P -NMR, phase separation, detergent, membrane protein crystallization, polyethylene glycol, 351

solute entrapment, POPC vesicles, free-thaw extrusion, enrichment, 73

sonicated vesicles, bipolar lipids, monopolar-bipolar lipid interactions, ^1H -NMR, 85

spin-lattice relaxation, hydration, phosphatidylcholine multibilayers, deuterium-NMR, head-group dynamics, interbilayer water, 61

spin label, phosphatidic acids, polar head group geometry, cyclopentanoid lipids, electron paramagnetic resonance, differential scanning calorimetry, thermotropic lipid transitions, 231

sponge phase, lipid bilayers, phase transition, 191

subtransition, propylgallate, phospholipid, phase transition, phase separation, 275

sucrose, phase diagram, monoglyceride, water, X-ray diffraction, 97

sulfur-containing phosphatidylcholines, lipid phase transition, differential scanning calorimetry, 323

sulphatide, phosphatidylcholine, albumin, micelles, liposomes, 207

surface potential, ESR-spin labeling, vesicles, cysteamine, partition coefficient, carboxylic acid or primary amine titration, 133

swelling, model membrane, X-ray scattering, pattern recognition approach, lipid-amino acid interaction, tryptophan, 283

thermotropic lipid transitions, phosphatidic acids, polar head group geometry, cyclopentanoid lipids, electron paramagnetic resonance, differential scanning calorimetry, spin label, 231

tocopherol, oxidation, linolenic acid, lipid, chemiluminescence, ESR, vitamin E, 215

tocopherols and tocotrienols, phospholipid liposomes, addition to the liposome solution, changes in membrane fluidity, changes in membrane potential, antioxidative activity, 295

triazine pesticides, atrazine, DPPC liposomes, FT-IR, DSC, fluorescence polarization, 179

triglycerides, tripalmitin, polymorphism, kinetics, X-ray diffraction, differential scanning calorimetry, 163

tripalmitin, triglycerides, polymorphism, kinetics, X-ray diffraction, differential scanning calorimetry, 163

tryptophan, model membrane, X-ray scattering, swelling, pattern recognition approach, lipid-amino acid interaction, 283

turbidity, phospholipid vesicles, dextran sulfate, aggregation, fusion, electrophoresis, fluorescence, 301

vesicles, ESR-spin labeling, cysteamine, partition coefficient, surface potential, carboxylic acid or primary amine titration, 133

vesicle membranes, acidic phospholipids, bilayer phase transition, additive effect, cationic surfactants, 145

vitamin E, oxidation, linolenic acid, tocopherol, lipid, chemiluminescence, ESR, 215

water, phase diagram, monoglyceride, sucrose, X-ray diffraction, 97

X-ray diffraction, DSC, liposomes, propranolol, phase transitions, 331

X-ray diffraction, phase diagram, monoglyceride, sucrose, water, 97

X-ray diffraction, phosphatidylethanolamine, phosphatidylserine, plasmalogens, fluorescence polarization, ^{31}P -NMR, 41

X-ray diffraction, triglycerides, tripalmitin, polymorphism, kinetics, differential scanning calorimetry, 163

X-ray scattering, model membrane, swelling, pattern recognition approach, lipid-amino acid interaction, tryptophan, 283

Author Index

Volume 55

Ahmad, T.Y.	231	Haage, K.	1
Albertini, G.	179, 283, 331	Hajdu, J.	323
Ambrosini, A.	179	Hancock, A.J.	231
Arnold, K.	301	Harbich, W.	191
Beck, A.	13	Heissler, D.	13
Berleur, F.	133	Helfrich, W.	191
Bertoia, D.	85	Huang, L.	339
Bertoli, E.	179	Inoue, T.	145
Bonnet, P.-A.	133	Ishinaga, M.	275
Bottega, R.	49	Kaufman, A.E.	41
Brockman, H.L.	231	Kellens, M.	163
Cantù, L.	223	Kinnunen, P.K.J.	55
Carrillo, M.J.H.	295	Klose, G.	1
Chachaty, C.	351	Korstanje, L.J.	123
Chapman, C.J.	73	Krumbiegel, M.	301
Chigorno, V.	207	Lambelet, P.	215
Collins, D.	339	Levine, Y.K.	123
Colotto, A.	283	Lewis, E.O.	231
Connor, J.	339	Lewis, R.N.A.H.	309
Corti, M.	223	Ljusberg-Wahren, H.	97
Curatola, G.	29, 179	Lölicher, J.	215
De Rosa, M.	85	Maeda, A.	115
Donati, C.	331	Mannock, D.A.	309
Ducret, F.	215	Mariani, P.	283
Duportail, G.	13	McElhaney, R.N.	309
Eikelenboom, K.A.	123	Meeussen, W.	163
Eisele, J.-L.	351	Meier, E.M.	103
Eklund, K.K.	55	Micol, V.	245
Epand, R.M.	49	Minyailenko, T.D.	25
Erdahl, W.L.	73	Mirghani, Z.	85
Fatome, M.	133	Mittelbach, M.	67
Fukushima, K.	145	Möps, A.	1
Gambacorta, A.	85	Morrisett, J.D.	231
Ghidoni, R.	207	Mukai, K.	275
Giglioni, A.	207	Narayan, O.	41
Gliozi, A.	85	Neumann, J.-M.	351
Goldfine, H.	41	Nishiya, T.	115
Gómez-Fernández, J.C.	245	Ohki, S.	301
Gotto Jr., A.M.	231	Ortiz, A.	245
Gratton, E.	29	Palestini, P.	207

Pfeiffer, D.R.	73	Tai, H.-H.	265
Phadke, R.S.	331	Tanfani, F.	179
Pitto, M.	207	Taylor, R.W.	73
Poklukar, N.	67	Tettamanti, G.	223
Ponzi Bossi, M.G.	331	Thuren, T.	55
Pownall, H.J.	231	Ting-Beall, H.-P.	339
Pozharov, V.P.	25		
Reynaers, H.	163	Ulrich, A.S.	61
Robinson, K.	49		
Roman, V.	133	Valsecchi, M.	207
Roth, H.J.	155	van der Reijden, C.S.	123
Rustichelli, F.	331	van Ginkel, G.	123
Sable, H.Z.	231	Vanderkooi, G.	253
Sandhoff, K.	103	Virtanen, J.A.	55
Saucy, F.	215	Volke, F.	61
Schummer, D.	103		
Seredenko, M.M.	25	Wang, C.-j.	265
Shomozawa, R.	145	Watts, A.	61
Söderberg, I.	97		
Sonnino, S.	223	Yamaoka, M.	295
Sturtevant, J.M.	323	Zeidler, J.M.	155
Suezaki, Y.	145	Zimmermann, W.	155
		Zolese, G.	29, 179

